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APPLICATION NO.	Fi	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/776,588 02/11/2004		02/11/2004	Anjur Sundaresan Krishnakumar	503023-B-01-US (Krishnaku	*****		
47827	7590	11/21/2005		EXAM	EXAMINER		
BIRCH, ST PO BOX 74		, KOLASCH & B	MEHRPOUR, NAGHMEH				
		OAD, STE 500 EA	ART UNIT	PAPER NUMBER			
		A 22040-0747	2686				

DATE MAILED: 11/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/776,588	KRISHNAKUMAR ET AL.					
	Office Action Summary	Examiner	Art Unit	·				
		Naghmeh Mehrpour	2686					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the d	correspondence ad	dress				
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in an analysis of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirg 17 rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co ED (35 U.S.C. § 133).					
Status		•	•					
1)□	Responsive to communication(s) filed on							
	•	-· action is non-final.						
3)	, -							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-23 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
_	Claim(s) <u>1-23</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□								
Applicati	on Papers							
ا ۱۵	The specification is objected to by the Evamine	•						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	ınder 35 U.S.C. § 119			·				
	Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110/o) (d) or (f)					
_	☐ All b)☐ Some * c)☐ None of:	phonty under 33 O.S.C. § 119(a))-(a) or (i).					
۵,۱	1. ☐ Certified copies of the priority documents	s have been received						
	2. Certified copies of the priority documents		ion No					
	3. Copies of the certified copies of the prior			Stage				
	application from the International Bureau			Clago				
* 5	See the attached detailed Office action for a list of	* **	ed.					
	•							
Attachment		. 🗖						
1) Notice of References Cited (PTO-892) A) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date								
3) 🔯 Inforn	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 8/23/05	5) Notice of Informal P 6) Other:		D-152)				

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DETAILED ACTION

Information Disclosure Statement

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The information disclosure statement filed reference listed in the information
 Disclosure submitted on 08/23/05 have been considered by the examiner (see attached
 PTO-1449

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-24, are rejected under 35 U.S.C. 102(e) as being anticipated by Karr et al. (US publication Number 2003/0222820 A1).

Karr discloses a location system is disclosed for commercial wireless telecommunication infrastructures. The system is an end-to-end solution having one or more location centers for outputting requested locations of commercially available handsets or mobile stations (MS) based on, e.g., CDMA, AMPS, NAMPS or TDMA communication standards, for processing both local MS location requests and more global MS location requests via, e.g., Internet communication between a distributed network of location centers. The system uses a plurality of MS locating technologies including those based on: (1) two-way TOA and TDOA; (2) pattern recognition; (3) distributed antenna provisioning; and (4) supplemental information

from various types of very low cost non-infrastructure base stations for communicating via a typical commercial wireless base station infrastructure or a public telephone switching network. Accordingly, the traditional MS location difficulties, such as multipath, poor location accuracy and poor coverage are alleviated via such technologies in combination with strategies for: (a) automatically adapting and calibrating system performance according to environmental and geographical changes; (b) automatically capturing location signal data for continual enhancement of a self-maintaining historical data base retaining predictive location signal data: (c) evaluating MS locations according to both heuristics and constraints related to, e.g., terrain, MS velocity and MS path extrapolation from tracking and (d) adjusting likely MS locations adaptively and statistically so that the system becomes progressively more comprehensive and accurate. Further, the system can be modularly configured for use in location signaling environments ranging from urban, dense urban, suburban, rural, mountain to low traffic or isolated roadways. Accordingly, the system is useful for 911 emergency calls, tracking, routing, people and animal location including applications for confinement to and exclusion from certain areas.

Regarding claims 1, 6-7, 12, 16, 17, 21, Karr teaches a method/apparatus comprising: acquiring signal strength measurements for a signal that is received at a plurality of receivers, wherein said plurality of receivers is distributed across a plurality of zones; and estimating which zone of said plurality of zones said signal was transmitted from based on: (i) which zone of said plurality of zones contains a majority of the receivers that correspond to the m strongest of said signal-strength measurements; and (ii) whether or not said zone determined in (i) contains a majority of the receivers that correspond to the m strongest of said signal-strength

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measurements after increasing the value of the m+1st strongest of said signal strength measurements; wherein m is a positive integer.

Regarding claims 2, 8, 18, 20, 22, Karr teaches method/apparatus selecting the strongest value, for m (0226, 0231, 0257).

Regarding claims 3, 9, 13, 23, Karr teaches a method/apparatus of claim 1 wherein said plurality of zones corresponds to the floors of a building and said candidate zone corresponds to a particular floor of said building (310, 313, 371).

Regarding claim 4, 10, 14, Karr teaches a method/apparatus of claim 1 wherein the value of the m+1st strongest of said signal strength measurements is increased by an amount between 4 and 6 dB, inclusive (0030, 0032).

Regarding claims 5, 11, 15, 19, Karr teaches a method/apparatus of claim 1 wherein the value of the m+1st strongest of said signal strength measurements is increased by an amount that is dependent on the value of m (0226, 0231, 0257).

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Muhonen et al. (US Publication 2004/0097229) disclose provision of service in a communication area

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Gwon et al. (US Publication 2004/0203904 A1) disclose selection fusion location

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estimation for wireless access techniques

Any responses to this action should be mailed to:

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Naghmeh Mehrpour whose telephone number is 571-

272-7913. The examiner can normally be reached on 8:00 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marsha Banks-Harold can be reached on 571-272-7905. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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NM

October 20, 2005

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